

SNARS COVID-19 FUN STUFF

Volume 1 number 9

Formerly SNARS Coronavirus Bored as Hell Antidote!

PRODUCT REVIEW: XIEGU G1M QRP TRANSCEIVER - here is the little brother of the Xiegu G90 transceiver. It is a 5 watt band with general coverage receiver. It is an SDR radio with most of the features of its big brother. Smaller in size and cost. It has a list price at \$299.95 BUT discounted on the internet. (\$225 - \$259 range). Please see attached pictures. It is a fun radio that won't break the bank. Use it portable or as a back up rig. It has a metal case and is easy to use. I have several if someone wants to see it in person....



Xiegu G1M on top of the G90



G1M atop a Hallicrafters SX-115

https://www.youtube.com/watch?v=b2Xr_vKDVcM

Partial Specifications

Receive: 0.5~30MHz (Continuous) Transmit:

3.5~4.0MHz, 7.0~7.3MHz Receiving Sensitivity: 0.45uV 12dB SINAD
MHz, 14.0~14.35MHz, 21.0~21.45MHz

Transmit Power: 5W 13.8V DC

Spurious Suppression: ≥45dB

Frequency Stability: ±1.5ppm (30 minutes after turning on the power)

Audio Output Power: 0.5W

Operating Voltage: 12~15V DC

Stand-by Current: 0.5A max

Transmitting Current: 2.5A max

Case Size: 97*40*155 (mm)

Full specs and features here: <https://qrznow.com/xiegu-g1m-hf-transceiver-quad-band-portable-sdr-qrp-5w-ssb-cw-aw/>



RADIO HISTORY: THE RADIO LEAGUE OF AMERICA - who knew that before the ARRL there was another organization with the founding members such as Lee DeForest, Nikola Tesla and Reginald Fessenden. Please read the great attached story: <https://earlyradiohistory.us/1915rla.htm>



HOW TO: ANTENNA TUNERS WHAT ARE THEY AND WHEN DO I USE ONE - antenna tuner basics : <https://offgridham.com/2019/06/antenna-tuner-basics/>

There are several names for antenna tuners, matching network, antenna couplers, trans match, etc. Basically you are trying to match the 50 ohm output of your transmitter to your antenna system. By matching your transmitter to your



antenna through the tuner your transmitter will run more efficiently and your final transistors will run cooler. Back in the vacuum tube days you could load up almost anything with your pi-network. I remember transmitting using my bedroom copper window screen and working a station in Ohio on 10 meters. My groundwire was attached to my bedroom radiator, hihi. There are high power, low power tuners, manual, automatic. Most newer transceivers have one built in or as an option. Please read and enjoy the videos and articles...

<http://www.arrrl.org/files/file/Technology/tis/info/pdf/9401070.pdf>

https://www.youtube.com/watch?v=ScHrZ_cwt-Q

<https://www.youtube.com/watch?v=RRkdbTadmUU>

As always we hope you enjoy these Mini Statics!

Stay tuned ...

73, Don W7SSB

Questions? Contact W7SSB dons Sherman@gmail.com or WB2AWQ WB2AWQ@arrrl.net

Features

- High Performance SDR Core Circuit Design
- Bright OLED Display + Spectrum Display
- NEW AM Broadcast Receiving Mode
- NEW Added CW Trainer Function
- Adaptive Speech Noise Reduction processing
- HF Continuous Receiver Tuning
- Supports Data Communication Mode
- Supports Connection interfacing with PC
- Supports Manual / Automatic CW Key operation for Straight or Iambic Keys (see below)
- Supports Connection with XPA125 / XPA125B / XPA20 Amplifiers
- Adjustable AGC Control

Storage Channel: 99

Operating Mode: SSB/CW/AM (AM is only used to receive broadcasts)

Receiving Dynamics: 90dB

Wavelength: short-wave including four amateur radio bands

Antenna Socket: BNC connector

Certification: CE, FCC (ES190111036E)

Partial Specifications

Receive: 0.5~30MHz (Continuous) Transmit:

3.5~4.0MHz, 7.0~7.3MHz Receiving Sensitivity: 0.45uV 12dB SINAD

14.0~14.35MHz, 21.0~21.45MHz

Transmit Power: 5W 13.8V DC

Spurious Suppression: ≥45dB

Frequency Stability: ±1.5ppm (30 minutes after turning on the power)

Audio Output Power: 0.5W

Operating Voltage: 12~15V DC

Stand-by Current: 0.5A max

Transmitting Current: 2.5A max

Case Size: 97*40*155 (mm)